## WHAT IS CLAIMED IS:

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1. A method for manufacturing a semiconductor device comprising the steps of:

forming a polysilicon film including a first portion doped with impurities at a first impurity concentration and a second portion doped with impurities at a second impurity concentration which is lower than said first impurity concentration; and

selectively etching said first portion of said polysilicon film by using a first etching condition and said second portion of said polysilicon film by using a second etching condition to thereby form gate electrodes from said first and second portions of said polysilicon film, said first etching condition generating a less amount of side etching compared to said second etching condition.

- 2. The method according to claim 1, wherein said polysilicon film includes said first and second portions in each of an nMOS area and a pMOS area, and is doped with n-type impurity ions in said nMOS area and doped with p-type impurity ions in said pMOS area.
- 3. The method according to claim 1, further comprising the step of forming an anti-reflection film on said polysilicon film before said selectively etching step.
- 4. The method according to claim 3, wherein said anti-reflection film

includes an organic resin.

- 5. The method according to claim 1, wherein said first etching condition uses CF-based etching gas.
- 6. The method according to claim 5, wherein said CF-based etching gas includes CF<sub>4</sub>, CHF<sub>3</sub> and/or CH<sub>2</sub>F<sub>2</sub>.
- 7. The method according to claim 5, wherein said first etching condition includes an ambient pressure of 3 to 20 mTorr, a source power of 200 to 600 watts, a bias power of 20 to 150 watts, and a volume ratio of said CF-based gas to total gas at 75% or more.
- 8. The method according to claim 5, wherein said second etching condition uses  $Cl_2/O_2$ ,  $HBr/O_2$ ,  $Cl_2/HBr/O_2$ ,  $Cl_2/HBr/CF_4$ , or  $Cl_2/HBr/CF_4/O_2$ .